CPP 程式設計題

命題者:TCC					
題目名稱(中文/英文):Complex					
主要測試觀念:					
Basics	Functions				
C++ BASICS 1 FLOW OF CONTROL FUNCTION BASICS PARAMETERS AND OVERLOADING ARRAYS STRUCTURES AND CLASSES CONSTRUCTORS AND OTHER TOOLS OPERATOR OVERLOADING, FRIENDS, AND REFERENCES STRINGS POINTERS AND DYNAMIC ARRAYS	SEPARATE COMPILATION AND NAMESPACES STREAMS AND FILE I/O RECURSION INHERITANCE POLYMORPHISM AND VIRTUAL FUNCTIONS TEMPLATES LINKED DATA STRUCTURES EXCEPTION HANDLING STANDARD TEMPLATE LIBRARY PATTERNS AND UML				
器 T 20 m · D. C					
題目說明:Define a class for complex numbers	3. A complex number is a number of the form				
a + b	o*i				
where for our purposes, a and b are numbers of type double , and i is a number that represents the quantity $\sqrt{-1}$. Represent a complex number as two values of type double. Name the member variables real and imaginary . (The variable for the number that is multiplied by i is the one called imaginary .) Call the class Complex . Include a constructor with two parameters of type double that can be used to set the member variables of an object to any values. Include a constructor that has only a single parameter of type double; call this parameter realPart and define the constructor so that the object will be initialized to realPart + 0*i . Include a default constructor that initializes an object to 0 (that is, to 0 + 0*i). Overload all the following operators so that they correctly apply to the type Complex : == , + , - , * , >> , and << . You should also write a test program, tstComplex-main.cpp, to test your class. Of course, you can use input-main?.cpp instead. ��入說明:此題無輸入。會提供測試用的 main()。 ��出說明:參考範例。 10 範例:					
Sample Input	Sample Output				
第一組測資與輸 input-main1.cpp 出 input1.txt	output1.txt				
附屬資料: ☑解答程式: complex. cpp, complex. h(檔名) ☑測試資料: input-main1. cpp, output1. txt, input1. txt, input-main2. cpp, output2. txt, input2. txt					
■ 易,僅需用到基礎程式設計語法與結構					
□中,需用到多項程式設計語法與結構					
□					
解題時間:30分鐘。	- X 11 - 10 - X1 - 11 M				

其他註記:		